

ABSTRACT OF THE DISCLOSURE

An assembly forming a seal with a built-in multi-pole magnetic encoder, intended to be mounted between a stationary support and a rotating support forming part of a rolling bearing. The assembly comprises a stationary armature secured to the stationary support and  
5 a moving armature bearing the encoder and secured to the rotating support. The assembly has no means allowing the association of a sensor past which the encoder moves. The magnetic encoder comprises a low even number of poles allowing the sensor to be distanced from the stationary armature such that magnetic flux of the encoder may be detected by the sensor that can electronically compensate for the reduction in the number of the pairs of  
10 poles, with detection being performed through the stationary armature.